BARGAINS

JULY 5, 1890.

Our Summer Stock of Clothing

Hats, Shoes and Dry Goods

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SEPTEMBER 15, 1890,

Fall Goods

LEADERS IN LOW PRICES.

OPERA HOUSE

ORUG STORE

E. E. PROWELL,

PROPRIETOR.

NEWLY OPENED

WITH A --

FRESH STOCK OF THE

EVER BROUGHT TO PHŒNIX.

Fancy Goods, Perfumes, Soaps,

Elegant Toilet Articles,

Purest Drugs

in First-Class Drug Stores.

# Struck a Rattling Pace.

## A Revolution of Limitless Extent in Manufacture.

only when an attempt is made to follow the developments in any particular branch that an approximate idea of its mighty progress as a whole and its farreaching and ever-widening influence in the industrial world can be arrived at the solution of the play of national pride.

industry and manufacture. There can recommendation. In some cities so far be no doubt that the electric motor is the most simple and effective piece of mechanism yet devised for the transmission and transformation of energy in a trustworthy and economical manner for useful work.

ALREADY A VAST ENTERPRISE.

It is interesting to examine the different ways in which this superiority is his seven-story office being in all probashown, and in doing so it is advisable to bility reached by electric motor elevator. eliminate from more than passing At luncheon he will be able to discuss morning's train for San Francisco. consideration the electric motor as consideration the electric motor as applied to railroads and to direct eat ice cream and drink iced-water due

of the extent to which it has already onsted the horse and come into competition with the steam engine, the cable and the dummy engine may be drawn from the fact that at the present time there are over 250 electric roads in this country, running or under contract, with country, running or under contract, with blown organ, be buried in a coffin of over 1,500 miles of track and probably 2,500 cars. These roads are already carrying between two and three hundred million passengers a year. They do this at an economy of forty to fifty per cent as compared with horses, and, moreover have the remarkable advantage of building up traffic at a greater rate and of developing and enhancing in value new residential distrets. Incredible as it may seem, also, to those who have not watched the course of events, several of watched the course of events, several of the shorter steam roads of the country are now negotiating for electrical equip-ments, and probably before this article developed beyond the merest beginning. appears in print contracts will have been

attention may be confined to the use of the electric motor for stationary power tilators and more particularly in drilling purposes. It is quite possible that several of those who read these lines may never have seen an electric motor, yet it is none the less true that there are providence, in its inscrutable dispensation.

LEMON HOTEL.

COMMERCIAL HOTEL.

W C Deputy Phonix J E Lacons, Dekalq peration in this country over 30,000 electric motors of that the best mines shall be the farthest various sizes, engaged in an endless removed from the water power best building motors reports that its machines are now employed in nearly 200 distinct industries, and that new uses are found daily. This development has been seen almost entirely within the last three years. From 1880 up to 1887 electrical engineers and contractors had given their attention mainly to the given their attention mainly to the installation of electric lighting plants in American towns and cities, with the passed, the old adage is now strictly unresult that there were some 1,200 central stations in operation supplying the arc light or the incandescent light, and sometimes both. A great many of these stations paid well from the start, but it was soon found out that the lighting business was after all a limited one; that is, it could only be carried on during the

ITS WONDERFUL ADAPTABILITY.

Yet the current which such a plant could generate would lend itself as gold that seemed to be utterly beyond could generate would lend itself as readily to driving an electric motor as to furnishing light in a lamp, and the same circuit that conveyed it to the lamps would also convey it to the motors. It was this fact that gave a great stimulus to the electric motor industry about three years ago, and led to the perfecting of what had theretofore been a crude and cumbersome piece of mechanism. As is now generally known the electric motor has but one moving part, the revolving armature, and by means of a pulley placed at the end of the armature shaft its power can be applied to any piece of apparatus or applied to any piece of apparatus or machinery known to the arts. But up to 1886 nearly all the electric motors had been badly designed and mosely below the sun rose over California the bed of that river was exposed and made to yield up its secrets and its wealth.

THE CURRENT DOING DOUBLE DUTY. machinery known to the state of excellent design in the current that should have been diverted into power was simply wasted in developing heat, so that the machines rapidly burnt out and otherwise became useless, and were altogether too expensive to run. At the present time, however, there are several electric motors are employed in mining purposes in the Chollar mine, in the great Comstock lode. There water, which has already done a large amount of work at the surface, is conducted under a 1600-feet head to water wheels at the bottom of the mine, which there drive an electrical generating plant. The an efficiency as over 90 per cent is claimed, and there can be no doubt that the rate of efficiency in the smaller sizes as well as in the larger is the

fuel applied to it. Moreover, with the electric motor an enormous advantage has been the fact that when it has been installed and connections have been made with the circuits connecting it with the central station it is practically ready that minute for work. All that is necessary is the turning of a switch and the current is instantaneously there. With the steam engine, even when the steam is taken from the steam mains in the street, considerable attention is necessary, and in the vast majority of instances the steam has to be manufactured on the street. factured on the spot, so that boilers are necessary, involving the attendance of an expert engineer, the supply of water and coal and the removal of ashes. Such steam plants also occupy considerable Marieopa streets. No services. Sunday school space and throw off no small amount of

SUPPLANTING STEAM.

heat. The idea, however, with the electric motor, is to concentrate in a central station all the inconvenience connected with the generation of steam and to transmit the energy in the form of current, so that all the user has to do is to draw off the supply as he wants it, just a he would do in turning a tap to procure a supply of water. procure a supply of water.

ALL SORTS OF WORK DONE

Today electric motors in different used to run butter churns. Not far off hall wound up the festivities. Giant Is Now Doing in the

United States.

From the New York Sun.]

From the New York Sun.]

The advance made by electrical science and application during the last ew years has been so phenomenal that in sausage factories or making whips, or picking hair, or sawing stone, or making pens, or driving jewelers' lathes. Some are busy making watch-case machinery, and others in making shoes. Not a few of them are in use by opticians for grinding glasses, while others have their merits sung in shrill Italian as good peanut roasters. In the liquor busyond peanut roasters. in the same street they are busy chop-The advance made by electrical science and application during the last few years has been so phenomenal that it is hard to define its extent, and it is only when an attempt is made to follow the developments in any particular branch that an approximate in the location of them are following discovered by the developments in any particular branch that an approximate in the location of them are following discovered by the developments in any particular branch that an approximate in the location of them are following discovered by the development of them are following discovered by the development of them are following discovered by the following were among those seated: C. S. Scott, Noble Grand; D. L. Murray, Vice Grand; John Grey, Secretary; Ed. Gillion of the discovered by the development of the discovered by th the industrial world can be arrived at.

From an investigation of the field alone, that of the electric motor, it at once becomes apparent that a revelation of limitless extent is being effected in the mostrum had acquired an additional the most of the evaporated by electric power.

A HANDY AGENT IN ALL OF LIFE.

During the morning he will conduct his business with electrically-made pens, and paper ruled by electricity, and make his records in electrically-bound books, It is nevertheless true that the use of the electric motor for transportation purposes is an industrial one. Some idea of the extent to which it has already ousted the horse and come into competition with the steam engine, the making to the same electrical energy. He will ride all about the place in electric cars, wear shirts and collars mangled and ironed by electric motor, sport a suit of clothes and a hat blocked by the same means; on holidays ride a merry-goround propelled by electric motor.

Outside of towns and cities the use of the electric motor still remains to be developed beyond the merest beginning, the electric motor still remains to be ger. but the compact, cleanly and economical miscellaneous industries, and particu-Putting aside this field, however, tention may be confined to the use of tention may be confined to the use of tention may be confined to the use of the use of the confined to the use of the use of the use of the confined to the use of true, several instances being on record in which this has been done with the most brilliant success.

THE MINING MAN'S LIEUTENANT. In not a few Western mines the energy thus reclaimed from water power several miles below is being carried back up hours of darkness, so that a valuable plant often lay idle sixteen or eighteen hours out of the twenty-four.

into the hills, and there employed to run hoists and vanners, quartz mills, stamps, pumps, amalgamators and other stamps, pumps, amalgamators and other appliances for which power is necessary.

current from the plant is conveyed by wires back to the surface and there op-erates six electric motors, each of 75horse power, which help in driving the big main shaft of the mill, thus supple-menting the work which is done on the

No evening service.

METHODIST EPISCOPAL CHURCH-Mohave and Washington streets. Preaching at 11 a. m. by Rev, M. F. Norton of Globe. Subject, "The new Dispensation compared with the oid." Sunday school at 9:30 a.m. All are invited to attend,

#### LOCAL BREVITIES.

The Board of Equalization has been

hard at work during the week. The Pioneer Band took in the town last evening in the interest of the Fiesta. Phoenix Typographical Union, No. 237, meets this afternoon in The Repus-LICAN composing rooms.

Mesa City held quite a celebration on parts of the country are running feed the Fourth. The Declaration was read cutters in stables, and are also used to by Prof. Banta and B. F. Johnson debrush the horses down. Others are livered the oration. A dance at the

#### PERSONALS.

Fred Brown has returned from hi Eastern trip.

H. H. Smith, of Kellogg Wells, is a the Gregory House.

Messrs. Williams and Samuels of Maricopa are in the city.

Mrs. B. F. Porter has returned from a visit to Southern California. Frank Fuqua left yesterday on a trip

to his old home in Missouri. C. T. Hayden was in the city yesterday looking after his water suit.

Mrs. C. L. Mosher leaves on this A. J. Halbert is around keeping his

morning for San Francisco. They expect to extend their summer trip to the beautiful waters of Puget Sound.

The Normal School case brought to SOAS TO BE PREPARED FOR OUR electric make, and last of all, have his name carved on his tombstone by the Hart, A. J. Peters, Prof. H. B. Farmer, Attorney Hawkins and Prof. R. L. Long.

Mrs. Jesus Otero, whose ankle was

sprained by the breaking of a bench at the evening exercises of the Fourth, is progressing well. The hurt was not a Sergeant Ambler, who was injured

but the compact, cleanly and economical signed for roads fifteen to twenty miles long. It is expected by electrical engineers that during 1891 several such engineers industries, and partieur engineers that during 1891 several such engineers that during the Rev. F. M. Norton is in Phoenix on a tleman is now the pastor of the Methodist church at Globe.

#### THE HOTELS.

W C Deputy. Phoenix J E Lacous, Dekale J O'Brien, Portland Or M Fitsimmons, Lo Wm Maxwell, Neb

MILLS HOUSE.

corder:
Tempe Land and Improvement Company
to E. A. Murphy-Lot 17, block 4, Tempe; consideration, \$250.
Benjamin J. Johnson and wife to Charles C.
Brown-S W. 54 sec 9, tp 1 N, R 5 E, except that
portion deeded to Boone Lewis on June 17, 1890;
consideration, \$10.
Fielding D. Ambrose and wife to Byron Jackson-N E 54 of N E 54, sec 23, tp 1 N, R 1 E; consideration, \$477, 75.
Chas. R. Drake, Receiver-Receiver's receipt
to F. S. Avise-S W 54 sec 3, tp 2 N, R 2 E.

No Cure No Pay.

Dr. Hyde, oculist, office and residence east of Gregory house, Phoenix, Ariz.

### PREFERRED LOCALS.

Girl to wait on table at restaurant wanted at once. Apply at REPUBLICAN

business office. Parties wanting seedless Sultana and Muscat grapes for canning, etc., leave orders at Phoenix Bakery. 39-1m

For a first-class breakfast go to the Maricopa House, at Maricopa. If you want A 1 nobby fit call on Nicholson the Tailor.

Cheap rooms, free bath, at the Ven-

Call on Jim Bradbury for the coolest glass of beer in the city,

A choice line of imported cigars at Bradbury's, on Washington street.

Bradbury's, on Washington street, is the place to drop in for an ice cold glass of beer, or for a drink of the choicest old Bourbon whisky sold in the city of

Nicholson the Tailor has received an elegant line of trouserings and suitings
—light goods to suit the season.

### What the Mexican War Cost.

[Biography of Matthew Galbraith Perry.] big main shaft of the min, thus supposed for power transmission machinery.

THE MOTOR READY FOR INSTANT WORK.

Thus an electric motor, or one-half of one-quarter horse power will easily show as high an efficiency as that of another sort of motor of ten or fifteen horse power, yet nobody dreams of expecting a gas engine or a steam engine of one-quarter or one-half horse power to give quarter or one-half by the water wheels at the good were regular troops, 56,926 volunters to good we The United States emyloyed in the inson streets. F. D. Rickerson, pastor. Sunday
School, 9:45 a. m. C. S. Scott, superintendent.
Preaching at 11 a. m. Topic, "Liberty under
Law. Who shall be King?" All are welcome. of Mexico, and many were ruined in health and characier.

### FOR SALE OR TRADE.

Two stallions, Norm and Burdo, can be bought so cheap as to frighten you. Easy payments with good security, or will trade for hay, grain or beef cattle. Address Port Coble or P. O. box 394, Phænix.

45tfw&d

# COME AND SEE US A. GOLDSCHMIDT & CO.

WHOLESALE GROCERS.

ARIZONA.

ORDERS BY MAIL PROMPTLY AND CAREFULLY ATTENDED TO-Sole Agents for the Victoria Mineral Water, the only Genuine Mineral Water in this Territory.

## CLOSING OUT!

## SALE!

We Have Concluded to Close Out Our Phoenix House.

WILL OFFER OUR ENTIRE STOCK -CONSISTING OF-

# CARPETS.

& KENEALY Crockery, Glassware, Wallpaper,

Cutlery and Platedware---

### AT REDUCED PRICES

JATIL THE STOCK IS ENTIRELY DISPOSED OF. .

We Have Closed Our Books and Will

## A Rare Opportunity

Flavoring Extracts, IS NOW OFFERED TO ANYONE WISHING TO ENGAGE IN A First-Class Business.

----AS WE ARE KNOWN TO BE-----

THE LEADING HOUSE

- In Our Line In the Territory-

Seattle, Wash.

Phœnix, Ariz.

## In all the loss of manhood by glory and malaria, was fully 25,000 men. The war cost the United States directly a sum estimated between \$120,000,000 and and \$165,500,000. Including the pensions recently voted, this amount will be greatly increased. Call and See Us, Whether You Wish to Purchase Anything or Not. Purchase Anything or Not.

The Prescription Department is under the charge of

a Graduate of one of the best-Colleges of Pharmacy

in the country, and especial attention is given to

Compiling Prescriptions, both Day and Night.

The Opera House Drug Store Never Closes.